

Bykov, Yu. M.
DETERMINATION OF MEAN SQUARE INTERPOLA-
TION ERROR FOR DISCRETE MEASUREMENT OF
RANDOM SIGNALS, tr. by B. W. Kuvshinoff.
30 Aug 63, 11p 7refs APL/JHU TG 230-T399.
Contract NOw 62-0604-c
Order from OTS \$0.50

TT-63-11720

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya: Energetika i Avtomatika, 1962, no. 6, p. 113-119.

DESCRIPTORS: *Automation, *Control theory, *Signals, Noise, Communication theory, Statistical functions, Errors

The accuracy of the interpolation $y(t)$ of a continuous random process $x(t)$ from the sequence of its discrete values is studied. The representation of the function (Research Methods--Communication Theory, TT, v. 11, no. 1) (over)

TT-63-11720

I. Bykov, Yu. M.
II. APL/JHU TG-230-T399
III. Applied Physics Lab.,
Johns Hopkins U.,
Silver Spring, Md.
IV. Contract NOw 62-0604-c

Office of Technical Services

THE READINESS FACTOR AND OPTIMUM CHECKING
PERIOD FOR REDUNDANT AUTOMATIC SYSTEMS, BY
A. A. SLEPOV, 13 PP.

RUSSIAN, PER, IZVESTIYA AKADEMII NAUK SSSR,
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JPRS/7577 #

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RELIABILITY OF REDUNDANT APPARATUS, BY ~~XXXXXX~~
A.L. GARKAVI, V. B. GOGOLEVSKIY, 26 PP.

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Vol 25, 1961, pp 180-233.
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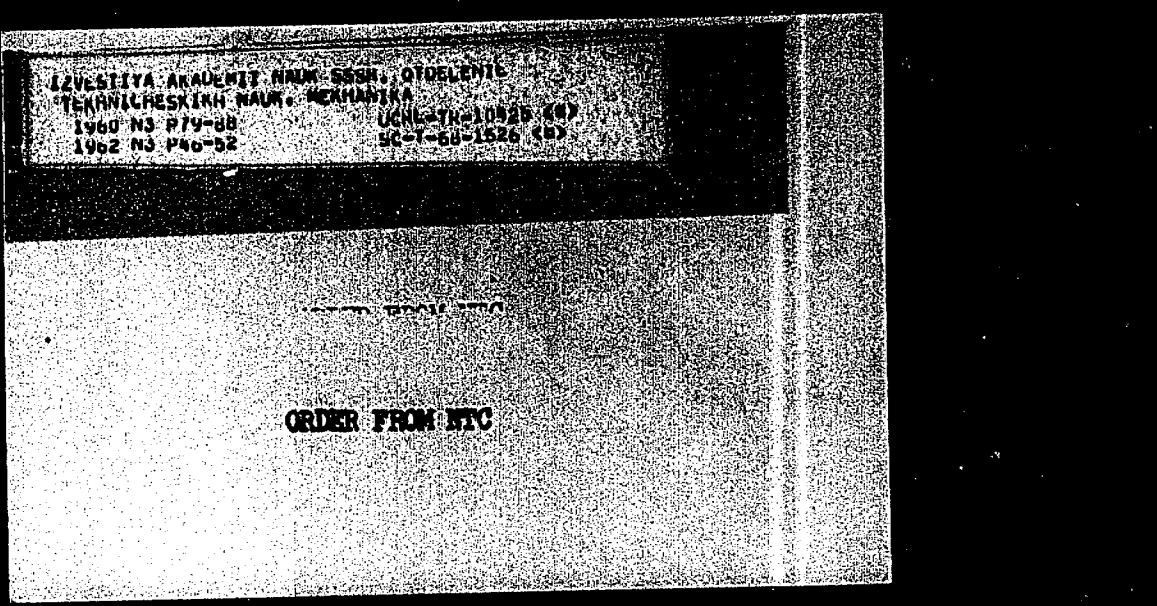
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JPRS 6177

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<p>Shorr, B. F. ON THE DETERMINATION OF THE UNSTEADY CREEP OF NONUNIFORMLY HEATED BARS OF ARBITRARY CROSS SECTION (K Raschenu na Neustanovlyshuyusya Polzuchest' Neravnometno Nagretykh Sterzhnei Proizvol'nogo Poperechnogo Secheniya) [1961] [20jp. 13 refs. Order from OTS or SLA \$1.60 61-20420</p> <p>Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya. Mekhanika i Mashinostroenie, 1959, no. 1, p. [89-96].</p> <p>DESCRIPTORS: *Rods, Creep, Determination, Temperature, Plasticity, Deformation, Stresses, Load distribution</p> <p>The method of calculation set forth for the elongation and bending of nonuniformly heated bars of arbitrary (over) (Mechanics, TT, v. 7, no. 8)</p>	<p>61-20420 I. Shorr, B. F. 201434 Office of Technical Services</p>
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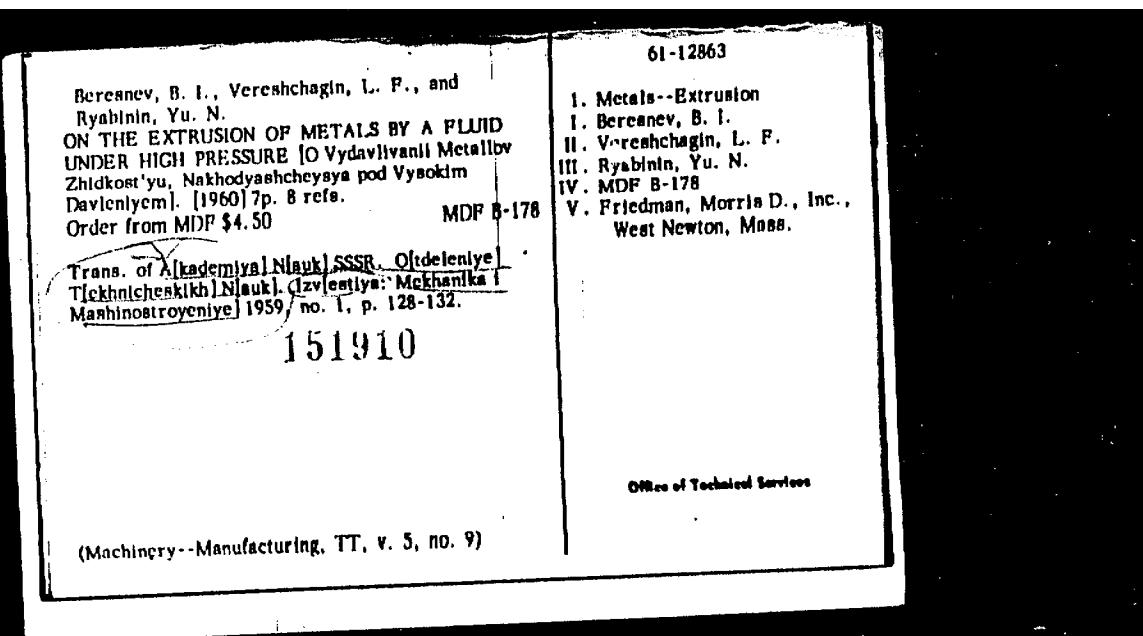
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Koshelev, G. V. Uzhik.

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A Condition on Laws of Creep, by S. A.
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One Approximation Method of Investigating Self-Oscillating Systems in the Presence of Slowly Changing External Influences, by V. I. Sergeyev, 5 pp.

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Action of a Strong Shock Wave, by S. S. Grigoryan,
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Flow Around Bodies by a Non-Ideal Gas Flow With
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On the Theory of Gas Flow in the Layer Between the Surface of a Shock Wave and the Blunt Surface of a Rotating Body, by N. A. Slezkin, 16 pp.

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No 2, 1959, pp 46-56.
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Investigation of Free Oscillations of the Nonlinear Systems With One or Two Degrees of Freedom, by N. K. Kulikov.

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<p>Makhortykh, Zh. K. STABILITY OF A MULTISPAN PANEL MOVING IN A GAS. [1962] [10]p. 6 refs. Free copies available from Boeing Scientific Research Labs. Library as Boeing Trans. R43. When supply is exhausted, order from OTS or SLA \$1.10, 62-18854</p> <p>Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya. Mekhanika i Mashinostroenie, 1959, no. 2, p. 174-177.</p> <p>DESCRIPTORS: *Aerodynamic configurations, *Panels (Structural), Oscillation, Stability, Supersonic flight, Supersonic characteristics, Aero-elasticity, Flutter.</p> <p>The problem of the oscillations of a multispans panel of finite length moving in a gas with great supersonic velocity is investigated in the linear formulation. The pressure of the gas is taken into account by the formula of piston theory. (Author) (Mechanics--Aerodynamics, TT, v. 9, no. 4)</p>	<p>62-18854</p> <p>I. Makhortykh, Zh. K. II. Boeing Trans-R43 III. Boeing Scientific Research Labs., Seattle, Wash.</p> <p>Office of Technical Services</p>
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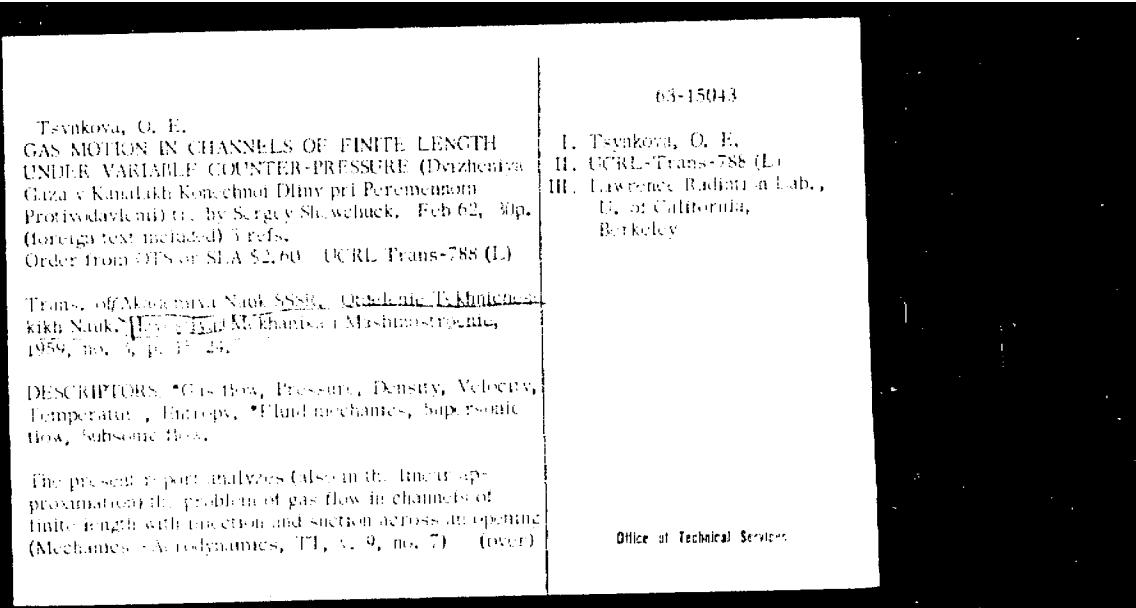
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Effect of Atmospheric Turbulence on an Airplane
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OTS AD 607 964

Sept 66

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On the Strength of Turbine Discs Under ~~and~~ Conditions
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Aug 82

On Possible Types of Discontinuities With Conduction,
by A. G. Kulikovskiy, G. A. Dyubimov, 3 pp.

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Motion of a Slender Blunted Body in the Atmosphere
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Investigation of a Stationary Discontinuity
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REF L-128

The Flow of a Viscous Rarefied Gas Around
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For JPRS W-3134 (6)

<p>Lyakhov, G. M. REFLECTION AND REFRACTION OF SHOCK WAVES IN MULTICOMPONENT MEDIA AND IN WATER, tr. by R. P. Ilwitzer. 29 Nov 60, 11p. 6 refs. APL/JHU TG 230-T203. Order from OTS \$0.50</p> <p>Trans. of Akademiya Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, Izvestiya: Mekhanika i Mashinostroyeniye, 1959, no. 5, p. 58-63.</p> <p>A study is made of the motion of a shock wave in water, water-quartz, and air-water-quartz media and also its refraction and reflection at the boundary of two media of different compressibility and at a solid boundary. (Applied Physics Lab. abstract) (See also 61-11165)</p> <p>(Physics--Wave Propagation, TT, v. 5, no. 9)</p>	<p>61-11181</p> <p>1. Shock waves--Reflection 2. Shock waves--Refraction 3. Water--Reflective effects I. Lyakhov, G.M. II. APL/JHU TG-230-T203 III. Applied Physics Lab., Johns Hopkins U., Silver Spring, Md. IV. Contract NORD-7386</p> <p>151878 Navy Tr 2888/APL-T 203 OTS 62-20252 Office of Technical Services</p>
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Dynamics of a Gyroscope With Two Degrees of Freedom,
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pp 117-118.

MDF G-167
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Sc1
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The Laminar Boundary Layer at a Plate in a
Supersonic Flow of a Slightly Rarefied Gas, by
V. P. Myasnikov,

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Mekh i Mash, No 5, Sep/Oct 1959, pp 127-130.

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Sci -
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For JPRS W-3134 (5)

Sidorov, E. A.

ON THE INTERACTION OF CONVECTION AND
RADIATION IN AN ABSORBING MEDIUM (O Vzaimodej-
stviu Konvektsii i Izlucheniya v Pogloshchayushchei
Srede). [1962] [11]p. (foreign text included) 6 refs.
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62-16099

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I. Sidorov, E. A.

Trans. of Akad[emiya] Nauk SSSR, Otd[elenie] Tekh-
nicheskikh Nauk, Izvestiya Mekhanika i Mashino-
stroenie, 1959 [no. 5] p. 134-136.

DESCRIPTORS: *Heat transfer, *Convection, *Thermal
radiation

Stationary motion is analyzed in a plane of an incompressible liquid (with constant physical characteristics)
near a nonisothermal surface.

(Physics--Thermodynamics, TT, v. 8, no. 7)

Office of Technical Services

(DC-3443).

Nikolay Gur'yevich Chetayev, 5 pp.

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FTD-TT-62-433

Sci - Engr, Phys

10 Jul 62

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(DC-3443).

Endurance Criterion for Certain Heat-Resistance
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19 pp.

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Sci - Min/Met
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JPRS 3173
UKAEA/Risley-Info Tr IATM-
59-6.13
115, 376

Effect of High Pressure Strengthening a Hollow
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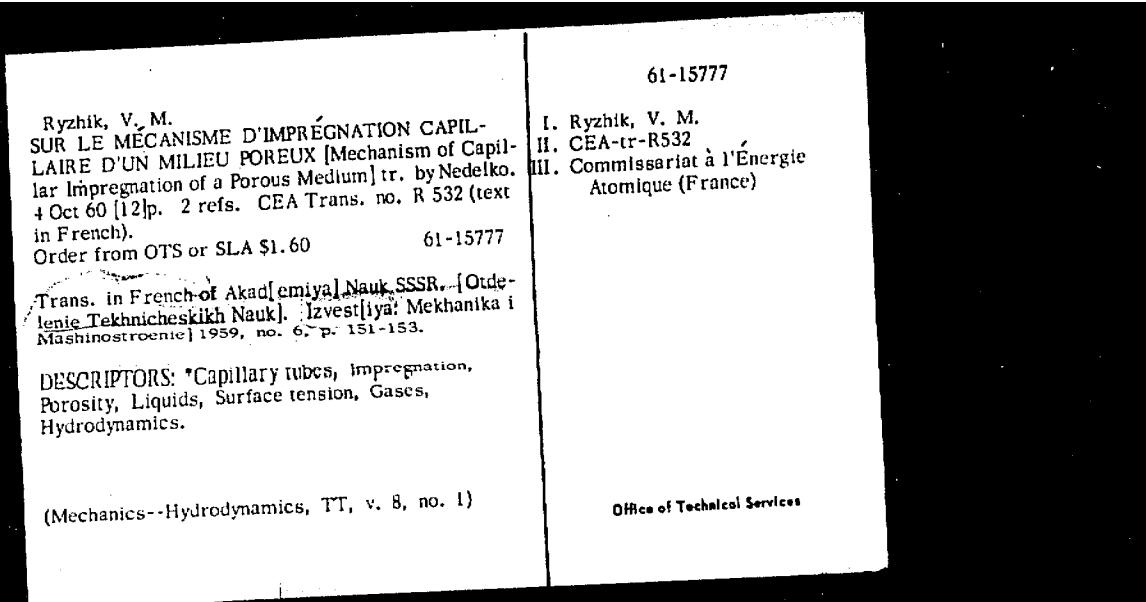
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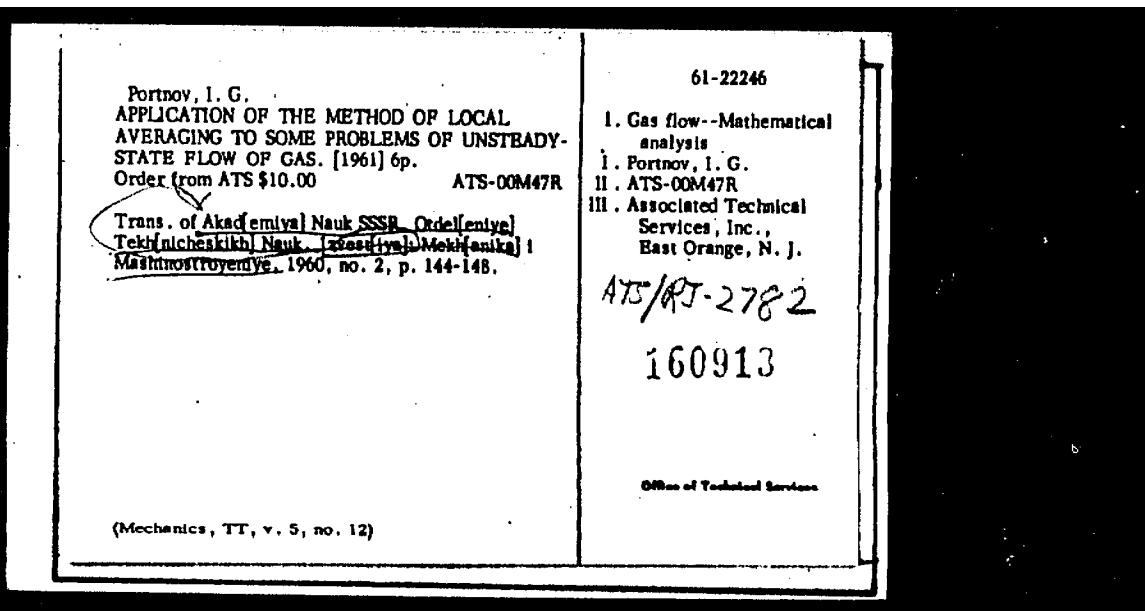
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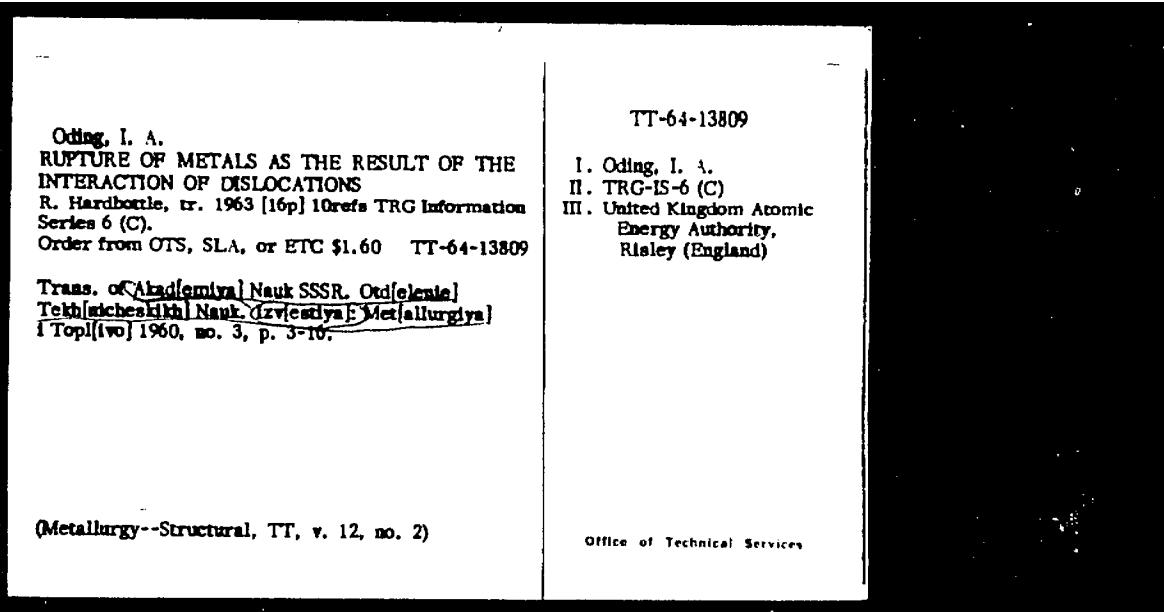
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